

Original

NCR

NCR : GmbH

BASIC SITE PREPARATION
DATA

Spezifikation / Specification

017-0025298

Änderung

Revision

A

NCR 7646	FLEXIBLE DISK RECORDER						Code	
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Spez. Änderg. Spec. Revision	Beschreibung Description				Gesehen Approval	Datum Date
	Für die Fertigung freigegeben Released for Production	Freigebende Fabrik Control Plant		Erstellt von Prepared by		
		Code	Ort			
		17	AUGS BUR G	H. Böck		2-1-80
A	17 ER 51048 NEW				<i>noch</i>	2-25-80

00169 (7/77) M

11/80



BASIC SITE PREPARATION DATA

X-1079-24

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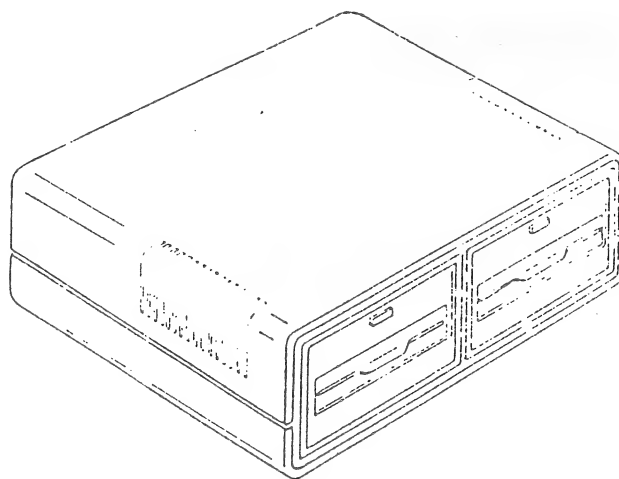
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Number and Name

NCR 7646 Flexible Disk Recorder

DESIGN CONTROL PLANT	PREPARED BY	DATE	REVISION
Augsburg	H. Böck	2-1-80	A

LINE DRAWING OF UNIT WITH COVERS ON



MODEL NUMBERS AND DESCRIPTION OF EACH

See Page 9a

7646 - 0101 - XX90 Single Drive Dual Density Flex Disk

7646 - 0201 - XX90 Double Drive Dual Density Flex Disk

Note: If the above units are used in the I-8140 they are designated as drive 0 and 1 or 2 and 3 resp.

PHYSICAL DIMENSIONS

Height	6.5	INCHES	165	mm
Width	19	INCHES	483	mm
Depth	19	INCHES	483	mm

WEIGHT

Unit Max. Shipping Weight	59,5 LBS	27	kg
Unit Max. Installed Weight	51 LBS	23 (with 2 Drives)	kg
Distributed Floor Loading	not applicable LBS/FT^2	not applicable	kg/m^2
Concentrated Floor Loading	not applicable LBS/IN^2	not applicable	kg/mm^2

FLOORING

RAISED FLOOR PERMITTED?	not applicable
SOLID FLOOR PERMITTED?	not applicable

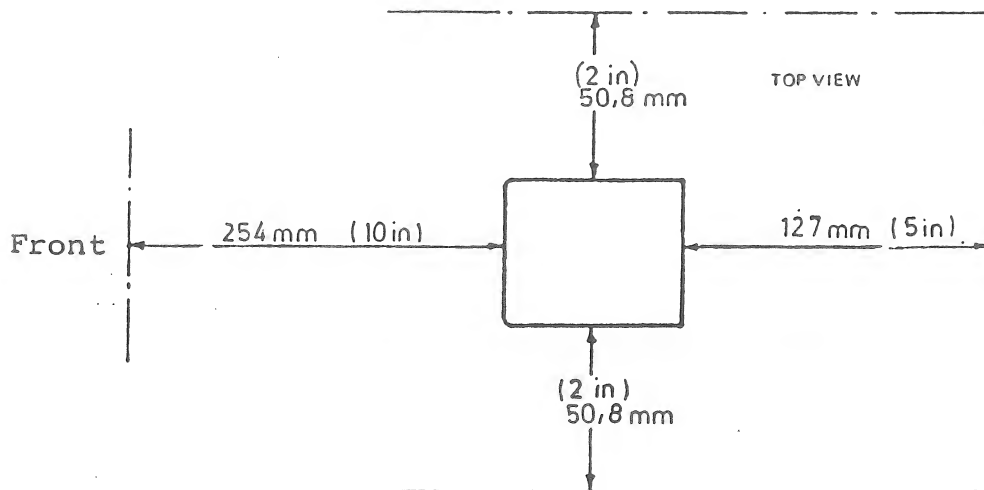
HANDLING

Maximum Degree of Tip Allowed 60°	<input type="checkbox"/> Casters Provided <input checked="" type="checkbox"/> Dolly Required
Upending Possible (90°) No	RIGGING REQUIREMENTS <input type="checkbox"/> Platform
Upending Procedure Not required	<input type="checkbox"/> Sling <input type="checkbox"/> Spreader Bar
Upending Kit Required No	<input type="checkbox"/> Hy-Lift <input checked="" type="checkbox"/> Other
Upending Kit Order No.	Can Installed Unit Be Moved Easily By One Person For Service? <input type="checkbox"/> YES <input type="checkbox"/> NO

FIELD ENGINEERING SERVICE CLEARANCE

Front	10	INCHES	254	mm
Rear	5	INCHES	127	mm
L. Side	2	INCHES	50,8	mm
R. Side	2	INCHES	50,8	mm
Top	36	INCHES	914,4	mm

DOOR AND COVER CLEARANCE ILLUSTRATION
(Includes service clearance and counter cutouts, where applicable.)



ENVIRONMENTAL REQUIREMENTS

Ref: CES 2-11-01

(Entries are product design criteria)

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PRODUCT (Check applicable column or specify in "other")					MEDIA		
WORKING RANGE	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Type Flexible Disk	Type	Type
TEMP RANGE (DRY BULB)	2 15°C to 32°C (59°F to 90°F)	3 10°C to 35°C (50°F to 95°F)	4 5°C to 50°C (40°F to 120°F)	OTHER	10°C to 50°C (50°F to 120°F)		
TEMP CHANGE Max Excursion During Period of	5°C (9°F) 60 Min.	10°C (18°F) 60 Min.	10°C (18°F) 60 Min.		10°C (18°F) 60 min.		
RELATIVE HUMIDITY RANGE	35 to 60%	20 to 80%	10 to 90%		20 to 80%		
HUMIDITY CHG. Max Excursion	10% 60 Min.	10% 60 Min.	10% 60 Min.		10% 60 Min.		
TEMP GRADIENT RESTRICTIONS	5°C (9°F)	10°C (18°F)	15°C (27°F)		10°C (18°F)		

EXTREME POWER ON RANGE (PRODUCT)

Attempted operation should not cause damage to the unit. Operation may be impaired, media may be damaged, and protective devices may operate.

	CES 2-11-01 STD. Values <input checked="" type="checkbox"/>	OTHER
TEMP RANGE	8°C to 40°C (32°F to 104°F)	
TEMP CHANGE	10°C (18°F) Per Hour	
HUMIDITY RANGE	10% to 95% RH (No condensation)	

TRANSIT RANGE

	PRODUCT	MEDIA
	CES 2-11-01 STD. Values <input checked="" type="checkbox"/>	OTHER
TEMP RANGE	-40°C to 71°C (-40°F to 160°F)	DESCRIPTION -40 to 53°C (-40 to 128°F)
TEMP CHANGE	20°C (36°F) Per Hour	20°C (36°F) per Hour
HUMIDITY RANGE	5% to 100% RH	8% to 90%

Notes:

STORAGE RANGE				
	PRODUCT		MEDIA	
	CES 2-11-01 <input type="checkbox"/> STD. Values	Other	Type	Type
TEMPERATURE RANGE	-10°C to 50°C (14°F to 120°F)		4°C to 53 (39 to 128°F)	
TEMPERATURE CHANGE	15°C (27°F) Per Hr		15°C (27°F) per Hour	
HUMIDITY RANGE	10% to 90% RH		8% to 80%	

DESIGN RANGES - BAROMETRIC PRESSURE (Ref. CES 2-11-01)		
<input type="checkbox"/> RANGE 1 (Product, Including Media)		
	BAROMETRIC PRESSURE	EQUIV. ALTITUDE (Ref. ONLY)
OPERATING	105kPa to 79.5kPa	Up to a maximum of 2000 metres (6560 feet)
TRANSIT	105kPa to 74.0kPa	Up to a maximum of 2500 metres (8200 feet)

MODIFICATION KIT AVAILABLE TO MEET RANGE 2? ☐ YES ☐ NO

IF YES, KIT NO.

<input checked="" type="checkbox"/> RANGE 2 (Product, Including Media, Without Modification)		
OPERATING AND TRANSIT	BAROMETRIC PRESSURE	EQUIV. ALTITUDE (Ref. ONLY)
	105kPa to 69.0kPa	Up to a maximum of 3000 metres (9850 feet)

ACOUSTICAL NOISE (Ref. CES 2-10-02)

☐ CAT. 1 — Idle: 7.0 bels Operating: 7.6 bels

☐ CAT. 2 — Idle and Operating: 7.0 bels

ACTUAL/OTHER:

6.8 bel

Not specified

OPERATIONAL VIBRATION LIMITS	
Not specified	
No:	

ELECTRICAL REQUIREMENTS

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Case ☒ 1 ☐ 3

Site Power Connections Three wire (phase, neutral & ground)

VOLTAGE/FREQUENCY DESIGN RANGES (Ref CES 2-11-02)					
50 Hz NOMINAL (49.0 Hz MIN. — 50.5 Hz MAX.)					
DESIGN VOLTAGES					
Nominal	Minimum	Maximum	Nominal	Minimum	Maximum
100	90	107	240	216	257
120	104	127			
127	114	136			
220	198	235			
230	207	246			

60 Hz NOMINAL (59.0 Hz MIN. — 60.8 Hz MAX.)		
DESIGN VOLTAGE		
Nominal	Minimum	Maximum
100	90	107
120	104	127

POWER SUPPLY DATA

AC TRANSIENT LIMIT (Ref CES 2-11-02)

STD. Design Criteria: 50% Nominal — ½ cycle duration — once every 10 seconds

MOMENTARY POWER OUTAGE

No Data Destroyed

STATIC DISCHARGE LIMITS (Ref. CES 2-11-10)

Meets requirements of CES 2-11-10

EMI SUSCEPTIBILITY (Ref. CES 2-11-09)

Meets requirements of CES 2-11-09

EMI EMISSION (Ref. CES 2-11-08)

Meets requirements of CES 2-11-08

POWER DATA

NAME PLATE RATINGS

	MODEL	MODEL	MODEL	MODEL	MODEL	MODEL
	7646-0201	7646-0201				
	- 1090	- 2390				
Voltage	220	120				
Frequency	50	60				
Current	0,5	1				
Watts	65	90				
Max. Operating kva	0,066	0,115				
Max. Operating kw	0,052	0,088				
Power Factor (Lead or Lag)	.79 Lag	.77 Lag				
Btu/Hr (w)	222	306				
KCAL/Hr (w)	56	77				
CURRENT (AVERAGE OPER)	0,3	0,9				
LEG 1						
LEG 2						
LEG 3						
CURRENT (MAX. SURGE)	0,55	1,1				
LEG 1						
LEG 2						
LEG 3						
CURRENT (MAX. OPERATING)	0,45	0,95				
LEG 1						
LEG 2						
LEG 3						
UNIT CIRCUIT BREAKER	1,5	1,5				
LEG 1						
LEG 2						
LEG 3						

A. IS DEDICATED BRANCH CIRCUIT REQUIRED?

☐ YES ☒ NO (Power from Host System)

IF YES, DEDICATED CIRCUIT MUST BE PROVIDED FROM:

☐ GEN. PURPOSE PANEL ☐ DEDICATED PANEL

B. IS INSULATED GROUNDING WIRE REQUIRED?

☒ YES ☐ NO
Same GND as Host System

IF YES, SPECIFY ACCEPTABLE GROUNDING

POINTS: (Note: Insulated grounding wire must be isolated from conduit and neutrals. It's referenced only at above grd. points)

☐ Building Service Ground Point ☐ Transformer Secondary

☐ Cold Water Pipe ☐ Other _____

C. POWER CORD SUPPLIED:

DOMESTIC

☒ YES ☐ NO

INTERNATIONAL

☒ YES ☐ NO

17

0,75 VDE

POWER CORD AWG 18 mm² 0,82 UL LENGTH IS 4,7 ft. 1,42 metres.

D. Site circuit breaker — if installed, recommended rated capacity is: _____

E. SITE POWER CABLE

Number of conductors: _____

Connector(s) required? ☐ YES ☐ NO

If "YES", specify recommended type, rating, etc. below.

Size of conductors: _____

AWG _____

mm² _____

Describe AC cabling and connections necessary for the unit and identify all connectors. (Illustration is recommended)

NOTE:

Supply voltage may be either from parent machine or separate power source

LINE
NEUTRAL
EARTH
SHIELD

CABLE	VDE	UL/CSA
LINE	BROWN	BLACK
NEUTRAL	BLUE	WHITE
EARTH	GRN/YEL	GREEN or GRN/YEL

NCR 7646

TB 10

B2

D2

A3

D4

E12

E10

E11

NCR 7646 (optional second unit)

TB 10

B2

D2

E11

E10



LOGIC & COMMUNICATION CABLE REQUIREMENTS

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of Required Cables

- L1 Interconnection C3274 - C7646 (Drive 0/1) : 017-0025239
- L2 Interconnection C7646 (Drive 0/1) - C7646 (Drive 2/3) : 017-0025241

State Optional Cable Lengths, if available

None

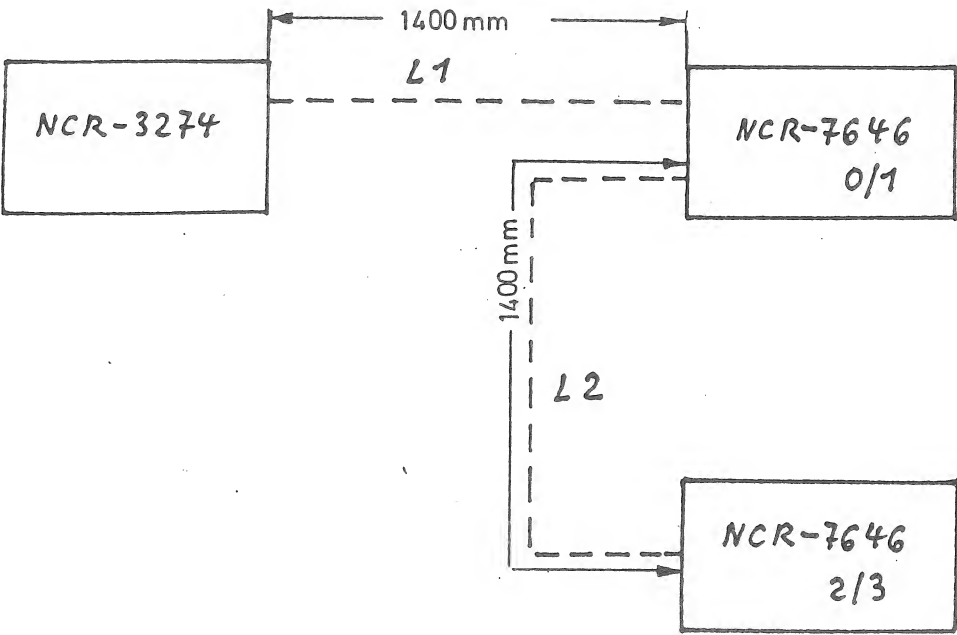
Cable Constraints

- a. Length restriction
- b. Routing requirements

Recommended Trunk Assignments

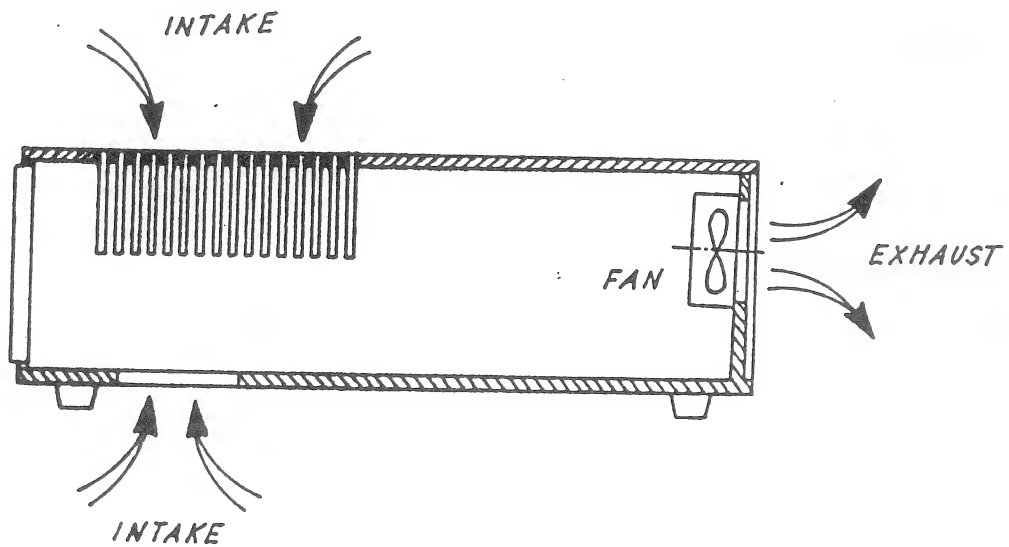
Not applicable

CABLE LENGTH AND ENTRANCE HOLES ILLUSTRATION



AIR COOLED PRODUCT DATA				
AIR FLOW			TEMP. RISE (INLET TO EXHAUST)	
cfm/	0.014	m ³ s	°F/	9 °C
cfm/		m ³ s	°F/	°C

AIR FLOW ILLUSTRATION



Notes:

MODEL NUMBER DESCRIPTION

C-7646 F000Major Model

01 F001

02 F002

Sub-Model

01 No additional features

Power Code

10 F013

23 F011

44 F012

Language Code

90 No language characteristics

Feature Content

F000 Every Unit Items
F001 Single Drive Dual Density Flexible Disk
F002 Double Drive, Dual Density Flexible Disk
F011 220V, 50Hz
F012 230V, 50Hz
F013 120V, 60Hz (includes range 100-127V, 60Hz)

C-7646 Kits

7646-K002 Single to Double Drive Upgrade Kit
(603-6091069)
7646-K003 Dual to Quad Density Upgrade Kit
(603-6091070)
7646-K005 Drive 0-1 to Drive 2-3 Interconnection Kit
7646-K092 7644 Freestanding Flex Disk
(603-6091067) Interconnection Cable